In The Specification:

On page 1, lines 6 and 7, please change "(Attorney Docket No. 0200/US)" with --09/384,742--.

On page 29, line 14, please change "(Attorney Docket No. 0201/US)" with -- 09/384,609--.

In The Claims:

Please rewrite claim 1 as follows:

A'

1   1. (Amended Once) Polarization interferometric apparatus, said apparatus
2   comprising interferometer means for receiving at least two beams having orthogonal
3   states of polarization and providing first and second interferometer legs, separating
4   said two beams for travel along said first and second interferometer legs,
5   respectively, and generating exit beams containing information about the respective
6   differences in the optical paths each beam experienced in traveling said first and
7   second interferometer legs, said first and second interferometer legs having optical
8   paths structured and arranged such that at least one of them has a variable physical
9   length, the optical path length difference between said first and second interferometer
10   legs varying in accordance with the difference between the respective physical
11   lengths of their optical paths and wherein at least one of said first and second
12   interferometer legs comprises a polarization preserving optical system structured and
13   arranged to deviate plane polarized beams through preselected angles while
14   maintaining their linear polarization as they travel along said at least one of said first
15   and second interferometer legs.

In claim 20, line 3 and in claim 28, line 6, please change "retroreflector" to --
optical system--.

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